BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for Improvements of Existing Toilets at Hegadenagara in Ward no.06 Byatarayanapura Sub Division

			Estimate Cost Rs.					500000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	cum							
	Soak Pit For Heagadenagara and Saraipalay		2	3.14X2.40X2.40		3.50	31.65		
				4					
	Sump		1	3.00	3.00	2.00	18.00		
							49.65	107.16	**5321.00**
	Basic Rate	82.00							
	Add 21% Ad-Hoc	17.22							
		99.22							
	Area Weightage @ 8%	7.94							
	Total	**107.16**							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
	For Sump		1	3.00	3.00	0.20	1.80		
							1.80	6360.20	**11448.00**
	Basic Rate	4867.00							
	Add 21% Ad-Hoc	1022.07							
		5889.07							
	Area Weightage @ 8%	471.13							
	Total	**6360.20**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/	**Sqm**							
	Sump		4	3.00	1.65		19.80		
	inside		4	2.70	1.65		17.82		
							37.62	**334.54**	**12585.00**
	Basic Rate	256.00							
	Add 21% Ad-Hoc	53.76							
		309.76							
	Area Weightage @ 8%	24.78							
	Total	**334.54**							
4	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
	Sump		2	3.00	0.15	1.65	1.49		
			2	2.70	0.15	1.65	1.34		
	RCC Slab		1	3.00	3.00	0.15	1.35		
	Bottom		1	2.70	2.70	0.10	0.73		
							4.90	7855.17	**38494.00**
	Basic Rate	6011.00							
	Add 21% Ad-Hoc	1262.31							
		7273.31							
	Area Weightage @ 8%	581.86							
	Total	**7855.17**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per	Qtl							
	0.95Ton/Cum		0.095	4.90			**0.47**	73246.14	**34100.00**
	Basic Rate	56050.00							
	Add 21% Ad-Hoc	11770.50							
		67820.50							
	Area Weightage @ 8%	5425.64							
	Total	**73246.14**							
6	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	**cum**							
	Flaging Concrete Hegadenagar		2	6.00	1.20	0.15	2.16		
	Flaging Concrete Saraipalya		2	6.00	1.20	0.12	1.73		
							3.89	6902.52	**26837.00**
	Basic Rate	5282.00							
	Add 21% Ad-Hoc	1109.22							
		6391.22							
	Area Weightage @ 8%	511.30							
	Total	**6902.52**							
7	KSRB 6-2.3 Providing and constructing **burnt brick masonry** with approved quality of non-modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification **No. KBS 6.2, Page No. 27/ Item No. 6.6/ PWD SR 2016-17**	Cum							
	For Saraipalya Anganavadi Building Compound Wall		1	5.00	0.23	1.50	1.73		
							1.73	8735.96	**15070.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	6685.00							
	Add 21% Ad-Hoc	1403.85							
		8088.85							
	Area Weightage @ 8%	647.11							
	Total	**8735.96**							
8	"SOLID PVC DOOR FRAMEProviding & fixing factory made PVC Door frame of size 50x47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2No.s of 150mm long brackets of 15x15 mm M.S. Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufactures specification & direction of Engineer-in charge **Page No. 57/ Item No. 9.84/ PWD SR 2016-17**	**Sqm**							
	Hegadenagara D		1	0.75	2.00		1.50		
	Saraipalya		2	0.75	2.00		3.00		
							4.50	687.38	**3093.00**
	Basic Rate	526.00							
	Add 21% Ad-Hoc	110.46							
		636.46							
	Area Weightage @ 8%	50.92							
	Total	**687.38**							
9	SOLID PANEL PRELAM PVC DOOR SHUTTERProviding & fixing 30mm thick factory made rigid foam prelam panelled Door Shutters made from M.S. tube of 19x19mm, 19 gauge for styles and 15x15mm for top & bottom rails, covered with heat moulded prelaminated PVC 'C' Channel of 5mm thick sheet & 30x50mm wide of form styles & 5mm thick & 75mm wide prelaminated PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S. frame, sealed to the styles &rails with PVC designer beading on either side & joined together with solvent cement adhesive etc., complete as per manufactures specification & direction of Engineer –in-charge fixed to frames with 3nos of 75mm. Aluminium hinges. Page No. 58/ Item No. 9.85/ PWD SR 2016-17								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Hegadenagara D		1	0.75	2.00		**1.50**		
	Saraipalya		2	0.75	2.00		**3.00**		
							4.50	5286.01	**23787.00**
	Basic Rate	4045.00							
	Add 21% Ad-Hoc	849.45							
		4894.45							
	Area Weightage @ 8%	391.56							
	Total	**5286.01**							
10	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications **Page No. 110/ Item No. 15.21 PWD SR 2016-17**	Sqm							
			2	5.00	1.50		15.00		
							15.00	252.21	**3783.00**
	Basic Rate	193.00							
	Add 21% Ad-Hoc	40.53							
		233.53							
	Area Weightage @ 8%	18.68							
	Total	**252.21**							
11	Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads,steps and landing,laid on a bed of 20mm thick cement morta. 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, clearing etc. complete .The Worked including curing., clearing etc., complete, The work includes cost of all materials. Labour charges for all items or work, hire charges for equipment, etc., complete as per specification. **Page No. 116/ Item No. 14.63 / PWD SR 2016-17**								
	Hegadenagar		3	1.80	1.20		6.48		
			1	2.40	1.20		2.88		
			1	2.40	2.60		6.24		
	Saraipalya		2	1.50	1.50		4.50		
							20.10	1404.81	**28237.00**
	Basic Rate	1075.00							
	Add 21% Ad-Hoc	225.75							
		1300.75							
	Area Weightage @ 8%	104.06							
	Total	**1404.81**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRB 14.17.2: Providing skirting, dado, rises of steps with Colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface white should be measured and paid separately) using glazed tiles of approved make and size of materials, labour, complete as per specifications. **Specification No. KBS 14.17. Page No. 103/ Item No. 14.41.1 / PWD SR 2016-17**								
	Hegadenagar		3X2	1.65	2.00		19.80		
			3X2	1.20	2.00		14.40		
			2	2.40	2.00		9.60		
			2	1.20	2.00		4.80		
	Saraipalya		2X2	1.50	2.00		12.00		
							60.60	1400.89	**84894.00**
	Basic Rate	1072.00							
	Add 21% Ad-Hoc	225.12							
		1297.12							
	Area Weightage @ 8%	103.77							
	Total	**1400.89**							
13	KSRB 15.15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. with primer. Page No.113/ Item No. 15.51.2 / PWD SR 2016-17	Sqm							
	Hegadenagara		3	15.00		3.00	135.00		
	Saraipalya		3	10.00		3.00	90.00		
							225.00	92.78	**20876.00**
	Basic Rate	71.00							
	Add 21% Ad-Hoc	14.91							
		85.91							
	Area Weightage @ 8%	6.87							
	Total	**92.78**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	SKSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. **Page No. 114/ Item No. 15.53.2 / PWD SR 2016-17**	Sqm							
	Hegadenagara		1	15.00		3.00	45.00		
	Saraipalya		1	10.00		3.00	30.00		
							75.00	109.77	**8233.00**
	Basic Rate	84.00							
	Add 21% Ad-Hoc	17.64							
		101.64							
	Area Weightage @ 8%	8.13							
	Total	**109.77**							
15	KSRB 15.17.8 : Extra over item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. **Page No.113/ Item No. 15.60.2 / PWD SR 20116-17**	Cum							
	Hegadeangara								
	W		4	0.90	1.20		4.32		
	Saraipalya		2	0.90	1.20		2.16		
							6.48	62.73	**406.00**
	Basic Rate	48.00							
	Add 21% Ad-Hoc	10.08							
		58.08							
	Area Weightage @ 8%	4.65							
	Total	**62.73**							
16	90mm pipe outer dia(3 layer) **Page No. 95 /Item No. 13.95.8 PWD SR 2014-15**	m							
	Hegadenagara		1	3.50			3.50		
	Saraipalya		1	3.50			3.50		
							7.00	1659.64	**11617.00**
	Basic Rate	1270.00							
	Add 21% Ad-Hoc	266.70							
		1536.70							
	Area Weightage @ 8%	122.94							
	Total	**1659.64**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	Providing and fixing chlorinated poly vany chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases & making good the same including testing of joints complete.(concealed work including cutting chases and good the walls etc,),15mm nominal OD pipes **Page No. 92/ Item No. 13.83.1/ PWD SR 2016-17**	m							
	Hegadenagara		1	20.00			20.00		
	Saraipalya		1	10.00			10.00		
							30.00	326.70	**9801.00**
	Basic Rate	250.00							
	Add 21% Ad-Hoc	52.50							
		302.50							
	Area Weightage @ 8%	24.20							
	Total	**326.70**							
18	Supppying water storage tanks made of virgin polymer (LLDPE) with two layers outer black of blue and inner white layer of approved quality and make, conforming to ISI / ISO / SSI specifications, No. 252/ Item No. 37.58 PWD SR 2016-17								
	Hegadenagara		1	500.00			500.00		
	Saraipalya		1	500.00			500.00		
							1000.00	7.84	**7841.00**
	Basic Rate	6.00							
	Add 21% Ad-Hoc	1.26							
		7.26							
	Area Weightage @ 8%	0.58							
	Total	**7.84**							
19	KSRB 13-6.1.2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3, **Page No. 88/ Item No. 13.24 / PWD SR 2016-17**	Each							
	Hegadenagara		6				6.00		
	Saraipalya		4				4.00		
							10.00	317.55	**3176.00**
	Basic Rate	243.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Add 21% Ad-Hoc	51.03							
		294.03							
	Area Weightage @ 8%	23.52							
	Total	**317.55**							
20	Orissa Pattern of size 575x425mm with integral type footrests	Each							
	Hegadenagara		3				3.00		
	Saraipalya		2				2.00		
							5.00	1241.46	**6207.00**
	Basic Rate	950.00							
	Add 21% Ad-Hoc	199.50							
		1149.50							
	Area Weightage @ 8%	91.96							
	Total	**1241.46**							
21	KSRB 11.11.1 : Providing and fixing white vitreous china clay, flat back wash basin of size 630x450mm with pair of 15mm C.P brass pillar taps with C.I./M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fitting and brackets ,cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. Page No. 81/ Item No. 12.23 PWD SR 2016-17	Unit							
	Hegadeangara		1				**1.00**		
	Saraiplaay		1				**1.00**		
							2.00	5078.22	**10156.00**
	Basic Rate	3886.00							
	Add 21% Ad-Hoc	816.06							
		4702.06							
	Area Weightage @ 8%	376.16							
	Total	**5078.22**							
23	KSRB 11-2 : Providing and fixing white vitreous china clay, water closets Orissa pattern of size 580 x 440mm with integral type footrests, 100m S or P trap, 10 litre low level, P. V. C. flushing cistern (all are approved make) with fittings, C.I. / M.S. brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.Specification No. KBS Page No. 78/ Item No. 12.2 PWD SR 2011-122016-17	Unit							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Hegadenagara		1				1.00		
	Saraipalya		1				1.00		
							2.00	5666.28	11333.00
	Basic Rate	4336.00							
	Add 21% Ad-Hoc	910.56							
		5246.56							
	Area Weightage @ 8%	419.72							
	Total	**5666.28**							
	KSRB 5.3-1 Providing and constructing granite / trap / basalt size stone masonry in basement with mud mortar, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item No. 5.4/ PWD SR 2016-17	**Cum**							
	Soak Pit		2	3.14X2.40X0.25		3.00	11.30	3804.09	43001.00
	Basic Rate	2911.00							
	Add 21% Ad-Hoc	611.31							
		3522.31							
	Area Weightage @ 8%	281.78							
	Total	**3804.09**							
24	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do-20 cms thick Page No. 28/ Item No. 5.31.2/ PWD SR 2016-17	**Sqm**							
	Hegadenagara		4	2.70	0.6		6.48		
	Saraipalya		4	2.70	0.6		6.48		
							12.96	1018.00	13193.00
	Basic Rate	779.00							
	Add 21% Ad-Hoc	163.59							
		942.59							
	Area Weightage @ 8%	75.41							
	Total	**1018.00**							
26	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction casing suction strainers 1.0HP/75KW	No	1				1	16544.09	16544.00
	Basic Rate	12660.00							
	Add 21% Ad-Hoc	2658.60							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		15318.60							
	Area Weightage @ 8%	1225.49							
	Total	**16544.09**							
							Grand Total		**450033.00**
27	For 10% KRIDL Charges								**45003.00**
28	For 1% Labour Cess								**4500.00**
29	Miscesallaneous Charges	L/S							**464.00**
									500000.00

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

ADMINISTRATIVE APPROVAL

Accorded For Rs. Five lakhs only

Head of A/c. P-3294.

Div. Ref. No. 59/17-18 Date. 06/02/18

AE

EE(BTP) 6/02

TECHNICAL SANCTION

Accorded For Rs. Five lakhs only

Head of A/c. P-3294.

Div. Ref. No. 59/17-18 Date. 06/02/18

AE

EE(BTP) 6/02